



Patent:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Albuquerque, New Mexico
October 5, 2005

Applicant: Alex Nugent **Group:** 2121
Serial No.: 10/748,631 **Examiner:** Anthony Knight
Filed: December 30, 2003 **Atty Docket No.:** 1000-1216
For: APPLICATION OF HEBBIAN AND ANTI-HEBBIAN LEARNING TO
NANOTECHNOLOGY-BASED PHYSICAL NEURAL NETWORKS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The following sections are being submitted for this Supplemental Information Disclosure Statement:

1. Preliminary Statements.

Applicant(s) submits herewith additional patents, publications or other information that they believe may or may not be material to the patentability of the claims under consideration in this application and in respect of which there may be a duty to disclose under 37 C.F.R. § 1.56.

The filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (37 C.F.R. § 1.97(h)), or that no other material information exists.

The filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that the references are prior art within the meaning of 35 U.S.C. §§ 102 or 103. Further, any explanation, if provided, is not to be construed as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relevance of any portion of any reference is intended.

The filing of this Supplemental Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

2. Form PTO-1449, List of Prior Art Cited by Applicant, citing 17 U.S. patents and/or patent application publications, 2 foreign patent and/or publications, and 4 non-patent references containing other information.

3. Attached to this Supplemental Information Disclosure Statement is a copy of Form PTO 1449 and accompanying references, for consideration by

the U.S. Patent and Trademark Office. Copies of the references listed in the Form PTO 1449 that have not been provided are believed to define the general state of the art and are not considered to be of particular relevance.

4. These references are in addition to those listed in any Supplemental Information Disclosure Statement and Form PTO 1449 filed previously with the U.S.P.T.O.

5. This Supplemental Information Disclosure Statement is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application and is accompanied by the statement specified in 37 CFR 1.97(e).

6. Statement in accordance with 37 C.F.R. § 1.97(e):

(1) Each item of information contained in the Supplemental Information Disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Supplemental Information Disclosure statement; or

(2) No item of information contained in the Supplemental Information Disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the Supplemental Information Disclosure statement after making reasonable inquiry, no item of information contained in the Supplemental Information Disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure statement.

7. The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's file.

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CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited on the date shown below addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231:

37 CFR 1.8(a)(1)(A)
With the United States Postal Service
with sufficient postage as first class
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Dated: October 5, 2005

37 CFR 1.8(a)(1)(B)
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number
Kermit D. Lopez
Kermit D. Lopez, Reg. No. 41,953

37 CFR 1.10
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FORM PTO-1449
(REV. 7.80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.:
1000-1216

SERIAL NO.: 10/748,631

LIST OF PRIOR ART CITED BY APPLICANT
(Use several sheets if necessary)

APPLICANTS: Alex Nugent

FILING DATE: 12/30/2003

GROUP ART UNIT: 2121

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If appropriate)
	US 2,707,223	04-1955	Hollman, Hans E	338	32R	
	US 3,833,894	09-1974	Aviram et al.	365	151	
	US 4,926,064	05-1990	Tapang, Carlos C.	706	26	
	US 5,670,818	09-1997	Forouhi et al.	257	530	
	US 5,761,115	06-1998	Kozicki et al.	365	182	
	US 5,896,312	04-1999	Kozicki et al.	365	153	
	US 5,914,893	06-1999	Kozicki et al.	365	107	
	US 6,084,796	07-2000	Kozicki et al	365	153	
	US 2001/0031900	10-2001	Margrave, et al.	570	126	
	US 2001/0041160	11-2001	Margrave, et al.	423	460	
	US 2002/0004028	01-2002	Margrave et al.	423	447.3	
	US 2002/0075126	06-2002	Reitz, et al.	338	21	
	US 2002/0086124	07-2002	Margrave et al.	428	36.9	
	US 2003/0031438	02-2003	Kambe et al.	385	122	
	US 6,620,346	09-2003	Schultz et al.	252	519.51	
	US 6,798,692	09-2004	Kozicki et al.	365	174	
	US 6,855,329	02-2005	Shakesheff, et al.	424	409	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	RU 2071126 C1	06-1996	Russia	G11C	13/02	NO	
	WO 03/017282 A1	08-2001	PCT	G11C	11/21	YES	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Nanoparticles Get Wired, Dimes Institute, Delft University of Technology, 1997
 A. Bezryadin, Trapping Single Particle with Nanoelectrodes, Physics News Graphics, September 1997
 Snow, et al., Nanofabrication with Proximal Probes, Proceedings of the IEEE, April 1997
 P. O'Connor, G. Gramegna, P. Rehak, F. Corsi, C. Marzocca, CMOS Preamplifier with High Linearity and Ultra Low Noise for X-Ray Spectroscopy, IEEE Transactions on Nuclear Science, Vol. 44, No. 3, June 1997, pp. 318-325

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.